

# Type-specimens of Hemiptera (Insecta) transferred from the Macleay Museum, University of Sydney, to the Australian National Insect Collection, Canberra

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The type-specimens of Hemiptera (Insecta) transferred on permanent loan from the Macleay Museum, University of Sydney, to the Australian National Insect Collection, Canberra, in 1969 are listed and their type status discussed.

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## INTRODUCTION

In 1969 an agreement was reached which enabled recognized type-specimens of insects lodged in the Macleay Museum, University of Sydney, to be transferred to the Australian National Insect Collection (A.N.I.C.), Canberra, on a 'permanent loan' basis (Britton and Stanbury, 1981). All relevant specimens now deposited in the A.N.I.C. under this agreement bear the label 'On permanent loan from the Macleay Museum, University of Sydney'.

Hahn (1962) listed in duplicated form the type-specimens of insects known to be lodged in the Macleay Museum at that time. Britton and Stanbury (1981) listed the type material of Coleoptera (Insecta) transferred from the Macleay Museum to the A.N.I.C. in 1969. The present paper documents the type specimens of Hemiptera (Insecta) transferred.

## THE ORIGIN AND STATUS OF THE RECOGNIZED TYPES TRANSFERRED FROM THE MACLEAY MUSEUM TO THE AUSTRALIAN NATIONAL INSECT COLLECTION

In total, 64 type-specimens of Hemiptera have been transferred to the A.N.I.C. They include types of species described by Goding and Froggatt (1904), Distant (1907), Musgrave (1930) and Evans (1939). The status of several of the types of Cicadoidea designated by Goding and Froggatt is doubtful. In some cases label and textual data do not correspond, or the number of type-specimens in a series or their place of lodgement is not specified in the original publication. Clarification of status must await taxonomic revision of the taxa concerned. The principal aim of this paper is to place on record the location of the type material under consideration.

The two type specimens of *Psaltoda plebeia* Goding and Froggatt reported as probably lost (Moulds, 1984) have been located in the A.N.I.C. and are listed.

Hahn's (1962) list of types contains the entry '*Tettigia tristigma* G. and F., Type male and Type female. N.T. South Australia. 1875. Tepper'. This species has been incorrectly attributed by Hahn to Goding and Froggatt, who redescribed *T. tristigma* (Germar, 1834) in their paper (Goding and Froggatt, 1904: 594). Two transferred specimens (1 ♂,

1 ♀) in the A.N.I.C. bearing the identification '*Tettigia tristigma* Germ' are labelled with the above distribution data, but are not labelled as types.

Three transferred specimens bear unpublished manuscript names (M. S. Moulds, T. E. Woodward, *personal communications*). The name *Abricta kadulua* Burns is attached to the female syntype of *Tibicen ruber* Goding and Froggatt; *Melampsalta alanubilis* Goding and Froggatt to another cicada specimen; and *Eucerocoropsis rufescens* Woodward to a specimen of Miridae.

Hahn (1962) incorrectly interpreted the locality labels of two paratypes of *Saldula azteca* Drake and Hottes as Colo, N.S.W.; the correct locality is Colorado, U.S.A. These, being non-Australian, will remain in the Macleay Museum.

Other type-specimens of Australian Hemiptera are known still to be in the Macleay Museum collection in Sydney and, undoubtedly, more await recognition.

#### CATALOGUE OF THE TYPES OF AUSTRALIAN HEMIPTERA TRANSFERRED FROM THE MACLEAY MUSEUM TO THE AUSTRALIAN NATIONAL INSECT COLLECTION

*Abbreviations used:*

H = Holotype or presumed holotype; S = Syntype or presumed syntype; P = Paratype;

A = Allotype; L = Lectotype; G & F = Goding and Froggatt;

\* = additional labelling; \$ = labelled as ♀; @ = labelled as ♂

Specific Name	Original Genus	Superfamily	Type Locality <i>ex</i> labels(s)	Sex	Type(s)
<i>annulata</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Southport, Q Townsville, Q	♂ \$ ♂	2S
<i>arenaria</i> Distant, 1907	<i>Melampsalta</i>	Cicadoidea	Bulli, NSW	♂	2S
<i>atratra</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	Australia	♂	S
<i>basalis</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Townsville, Q	♂	H
<i>binotata</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	SA Ardrossan, SA	♂ ♀	2S
<i>borealis</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	NT	♀	H
<i>borealis</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	K. G. Sound (WA)	♂	S
<i>castanea</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Karth or Nearth, SA	♀ @	H
<i>compressa</i> Evans, 1939	<i>Ledaprora</i>	Cicadelloidea	K. G. Sound (WA)	♀	H
<i>congrua</i> G & F, 1904	<i>Kanakia</i>	Cicadoidea	Brisbane, Q Kuranda, Q	♂ ♀ ♂	3S
<i>doddi</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	Kuranda, Q Cairns, Q *Kuranda, Q	♂ ♀	2S
<i>dubia</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Fernshaw, V *Ferndale, V Lucindale, SA	♂ ♂ ♀	2S
<i>emma</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Rockhampton, Q	♂	S
<i>flavus</i> Evans, 1939	<i>Austroagalloides</i>	Cicadelloidea	King George's Sound, WA	♀	H
<i>fletcheri</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	Cook's R., NSW *Sydney	♀	H
<i>hirsutus</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	SA	♂	H

Specific Name	Original Genus	Superfamily	Type Locality <i>ex labels(s)</i>	Sex	Type(s)
<i>infuscata</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	SA	♂	S
<i>kurandae</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	Kuranda, Q	♂ ♀	2S
<i>latus</i> Evans, 1939	<i>Anacephaleus</i>	Cicadelloidea	K. G. Sound (WA)	♂	H
<i>leurensis</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Blue Mountains, (NSW)	♂ ♀	2S
<i>monstrosa</i> Evans, 1939	<i>Platyledra</i>	Cicadelloidea	K. G. Sound (WA)	♂	H
<i>nigristriga</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Endeavour R. (Q)	♂	H
<i>nodicosta</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	Kalgoorlie, WA	♀	H
<i>occidentalis</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	WA	♂	H
<i>plebeia</i> G & F, 1904	<i>Psaltoda</i>	Cicadoidea	Australia NSW	♂ ♀	2S
<i>prolongata</i> G & F, 1904	<i>Pauropsalta</i>	Cicadoidea	SA	♀	H
<i>punctatus</i> Evans, 1939	<i>Cephalelus</i>	Cicadelloidea	K. G. Sound (WA)	♀	H
<i>rubea</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	Brisbane, Q	♂ ♀	2S
<i>ruber</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	King's Sound, WA	♂	2S
			Rockhampton, Q	♀	
<i>rubricinctus</i> G & F, 1904	<i>Tibicen</i>	Cicadoidea	SA	♂	L
<i>rubristrigata</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	Mt Lofty, SA	♂ ♀	2S
<i>spinosa</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	New Holland	♂ ♀	2S
<i>superba</i> G & F, 1904	<i>Venustria</i>	Cicadoidea	Kuranda, Q	♂ ♀	2S
<i>trispinosus</i> Musgrave, 1930	<i>Deroploopsis</i>	Pentatomoidae	SA SA? without data	A ♀, 2 ♂, 1 ♀ 1 ♂, 2 ♀ 5 ♀	A, 11P
<i>tristrigata</i> G & F, 1904	<i>Melampsalta</i>	Cicadoidea	Kuranda, Q Sydney, NSW	♂ ♀	2S
<i>variegata</i> G & F, 1904	<i>Tettigia</i>	Cicadoidea	Townsville, Q	♂	L
<i>viridis</i> G & F, 1904	<i>Glaucopsaltria</i>	Cicadoidea	Tambourine Mtn, Q	♀	S

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